

Title (en)
PROCESS AND PLANT FOR AMMONIA-UREA PRODUCTION

Title (de)
VERFAHREN UND ANLAGE ZUR HERSTELLUNG VON AMMONIAK-HARNSTOFF

Title (fr)
PROCÉDÉ ET INSTALLATION DE PRODUCTION D'AMMONIAQUE ET D'URÉE

Publication
EP 2688840 A1 20140129 (EN)

Application
EP 12702846 A 20120210

Priority

- EP 11159656 A 20110324
- EP 2012052276 W 20120210
- EP 12702846 A 20120210

Abstract (en)
[origin: EP2502881A1] A process for ammonia-urea production where: liquid ammonia produced in an ammonia section is fed to a urea section directly at the ammonia synthesis pressure, and where the liquid ammonia is purified at high pressure with the steps of: cooling the liquid ammonia (20) obtaining a cooled liquid ammonia stream (21), separating a gaseous fraction (22) comprising hydrogen and nitrogen from said cooled liquid ammonia, obtaining purified liquid ammonia (23) at a high pressure, and reheating said purified liquid ammonia (23) after separation of said gaseous fraction, obtaining a reheated purified ammonia (24) having a temperature suitable for feeding to the urea synthesis process. The application also deals with an ammonia-urea plant comprising an ammonia cooler, a liquid-gas separator and an ammonia re-heater and with a method for revamping existing ammonia-urea plants.

IPC 8 full level
C01C 1/04 (2006.01); **C07C 273/04** (2006.01)

CPC (source: EP US)
C01C 1/0488 (2013.01 - EP US); **C07C 273/10** (2013.01 - EP US); **Y02P 20/52** (2015.11 - EP US)

Citation (search report)
See references of WO 2012126673A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2502881 A1 20120926; BR 112013024448 A2 20201110; BR 112013024448 B1 20210608; CA 2831183 A1 20120917; CA 2831183 C 20191210; CN 103764564 A 20140430; CN 103764564 B 20180904; EP 2688840 A1 20140129; EP 2688840 B1 20141217; PL 2688840 T3 20150529; RU 2013147266 A 20150427; RU 2597362 C2 20160910; UA 115032 C2 20170911; US 2014018575 A1 20140116; US 9708250 B2 20170718; WO 2012126673 A1 20120927

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EP 11159656 A 20110324; BR 112013024448 A 20120210; CA 2831183 A 20120210; CN 201280022698 A 20120210; EP 12702846 A 20120210; EP 2012052276 W 20120210; PL 12702846 T 20120210; RU 2013147266 A 20120210; UA A201312357 A 20120210; US 201214007100 A 20120210